Michael He

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EDUCATION

University of Virginia   Charlottesville, VA
Bachelor of Science in Computer Science, Minor in Data Science, Dean's List GPA: 3.93   *Aug 2022 – May 2025*
Relevant Courses: Data Structures and Algorithms, Computer Systems Organization, Discrete Math and Theory, Linear Algebra, Software Engineering, Cybersecurity, Data Design, Inference and Prediction

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, HTML, CSS, SQL, C, R
Frameworks: React, Next.js, Tailwind CSS, Node.js, Java Spring Boot, Framer Motion, Django, JUnit, Material-UI
Developer Tools: Git, GitHub, VS Code, Visual Studio, Gradle, PyCharm, IntelliJ, Eclipse
Technologies: MySQL, SQLite3, AWS DynamoDB, AWS S3, AWS EC2, Figma, OpenAI API, Discord API, Rest API
Soft Skills: Communication skills, Teamwork, Time management, Problem-solving, Motivated, Active listener

RELEVANT WORK EXPERIENCE

Software Engineer Intern   Jan 2023 – Mar 2024
Runway   *Remote*
- Produced production level code to manage over 2000 college students and businesses
- Interacted with other developers to manage and build a full stack website
- Collaborated with project managers, designers, and developers to define project goals, requirements, and timelines
- Built over 20 user interface components and pages using Next.js, React.js, and Tailwind CSS
- Worked with developers to build Java Spring backend routes to organize over 200 business projects

RELEVANT PROJECTS

HooGrades | *Next.js, Tailwind CSS, AWS Lambda, AWS Dynamodb, AWS S3, AWS EC2 | Team Project*   Mar 2024
- Participated in a 24 hour hackathon competing against a field of 700 contestants
- Developed a full-stack web application using with AWS Lambda serving a REST API with Next.js as the frontend
- Spearheaded the UI/UX design using Figma for HooGradess
- Utilized OpenAi's vision API to grade students' work
- Integrated Framer Motion to incorporate fluid animations, improving the website's interactivity and visual appeal
- Implemented a robust backend architecture on AWS, using services such as Lambda, DynamoDB, S3, and EC2, ensuring scalability, reliability, and high performance of the HooGrades platform
- Facilitated team collaboration and effective version control using GitHub, leading to streamlined development processes, efficient resolution of merge conflicts, and maintenance of high-quality code standards

Personal Portfolio | *Next.js, Tailwind CSS, GitHub | Personal*   Sep 2023 – Present
- Designed and developed a personal portfolio website utilizing modern web framework Next.js
- Utilized Tailwind CSS for responsive and visually appealing UI/UX design, ensuring a seamless user experience
- Deployed the web app to GitHub pages and resolved linking conflicts

CheapGPT | *Node.js, Discord API, OpenAI API, Sqlite3 | Personal*   Jun 2023 – Present
- Launched a Node.js based Discord bot to allow users to interact with ChatGPT 4 with vision in a server setting
- Continuously maintain and update the Discord bot to ensure optimal performance and scalability
- Generated a file directory system when the text exceeded the Discord character limit
- Implemented commands for users and allowed users to create multiple conversations
- Used SQLite3 to store the API usage for each unique user

Runway Website | *Next.js, Java Spring Boot, Tailwind CSS, AWS DynamoDB | Runway*   Jan 2023 – Mar 2024
- Launched a full stack website modeled using Figma
- Built a page for businesses to view student profiles
- Developed a page listing business submitted projects created functionalities for students to apply/unapply to projects
- Interacted with the AWS DynamoDB and AWS S3 to retrieve and render website components
- Utilized Tailwind CSS and flexbox to optimize desktop and mobile views
- Generated backend routes using Java Spring Boot hosted on an Amazon EC2 instance
- Rebuilt the entire website from React.js to Next.js and Tailwind CSS